

## Reference U

L11 ANSWER 1016 OF 4129 HCPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1984:406176 HCPLUS  
 DOCUMENT NUMBER: 101:6176  
 ORIGINAL REFERENCE NO.: 101:1063a,1066a  
 TITLE: Studies on amines and ammonium compounds. CLXXIV.  
 Bromination of unsaturated compounds with complexes  
 formed between bromine and  
 1,4-bis(trialkylammonium)-2-butene dihalides  
 Gyul'nazaryan, A. Kh.; Khachatryan, N. G.; Saakyan, T.  
 A.; Churkina, N. P.; Babayan, A. T.  
 AUTHOR(S):  
 CORPORATE SOURCE: Inst. Org. Khim., Yerevan, USSR  
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 37(1), 29-33  
 DOCUMENT TYPE: CODEN: AYKZAN; ISSN: 0515-9628  
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 AB Unsatd. hydrocarbons, esters, BuOCH:CH<sub>2</sub> and CH<sub>2</sub>:CHCH<sub>2</sub>R (R = Br, OH) were  
 brominated by Me<sub>3</sub>N+CH<sub>2</sub>CH:CHCH<sub>2</sub>N+Me<sub>3</sub>·Br<sub>3</sub> X- (I; X = Cl, Br) in  
 ≥85% yield. Thus, reaction of 1-heptene with I (X = Br) at  
 40-50° for 2 h gave 98.1% 1,2-dibromoheptane.  
 IT 78400-99-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (bromination by, of unsatd. organic compds.)  
 RN 78400-99-4 HCPLUS  
 CN 2-Butene-1,4-diaminium, N,N,N',N'',N'-hexamethyl-, bromide (tribromide)  
 (9CI) (CA INDEX NAME)

CM 1  
 CRN 78400-98-3  
 CMF C10 H24 N2



CM 2  
 CRN 14522-80-6  
 CMF Br<sub>3</sub>

